

Hi-MO 9 Preliminary

LR8-66HYD 625~660M

- Products for utility with optimal power generation through the entire lifecycle
- Performance improvement leads to a more than 6.5% power generation gain
- TaiRay wafer & BC technology enhances high product reliability
- Smart manufacturing & LONGi product lifecycle standards deliver exceptional product quality

12

12-year Warranty for
Materials and Processing

30

30-year Warranty for Extra
Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval

LONGi



24.4%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

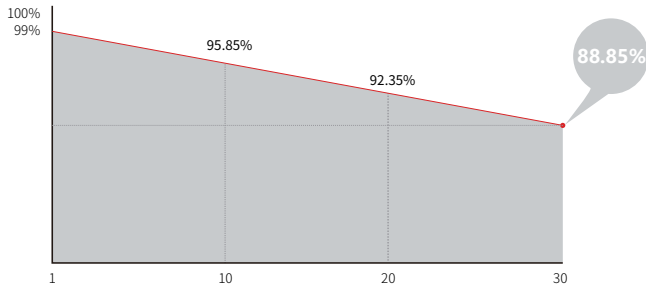
<1%
FIRST YEAR
POWER DEGRADATION

0.35%
YEAR 2-30
POWER DEGRADATION

BC-CELL
LOWER OPERATING
TEMPERATURE

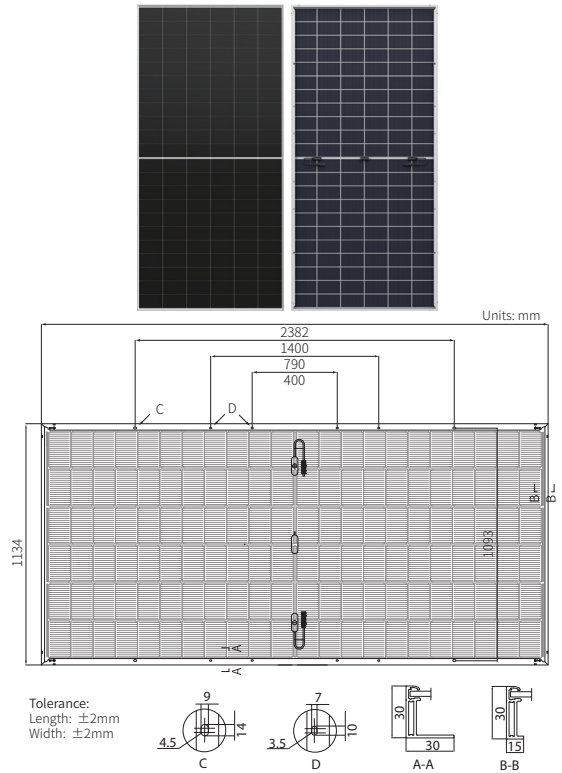
Additional Value

30-Year Power Warranty



Mechanical Parameters

| | |
|------------------|---|
| Cell Orientation | 132 (6×22) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm ² , +400, -200mm/±1400mm length can be customized |
| Glass | Dual glass, 2.0+2.0mm heat strengthened glass |
| Frame | Anodized aluminum alloy frame |
| Weight | 33.5kg |
| Dimension | 2382×1134×30mm |
| Packaging | 36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC |



Electrical Characteristics STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%

| Module Type | LR8-66HYD-625M | | LR8-66HYD-630M | | LR8-66HYD-635M | | LR8-66HYD-640M | | LR8-66HYD-645M | | LR8-66HYD-650M | | LR8-66HYD-655M | | LR8-66HYD-660M | |
|----------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax/W) | 625 | 475.8 | 630 | 479.6 | 635 | 483.4 | 640 | 487.2 | 645 | 491.0 | 650 | 494.8 | 655 | 498.6 | 660 | 502.4 |
| Open Circuit Voltage (Voc/V) | 49.51 | 47.05 | 49.61 | 47.15 | 49.71 | 47.24 | 49.81 | 47.34 | 49.91 | 47.43 | 50.01 | 47.53 | 50.11 | 47.62 | 50.21 | 47.72 |
| Short Circuit Current (Isc/A) | 16.09 | 12.92 | 16.17 | 12.99 | 16.25 | 13.05 | 16.33 | 13.12 | 16.41 | 13.18 | 16.49 | 13.24 | 16.57 | 13.31 | 16.65 | 13.37 |
| Voltage at Maximum Power (Vmp/V) | 40.70 | 38.68 | 40.80 | 38.77 | 40.90 | 38.87 | 41.00 | 38.97 | 41.10 | 39.06 | 41.20 | 39.16 | 41.30 | 39.25 | 41.40 | 39.35 |
| Current at Maximum Power (Imp/A) | 15.36 | 12.31 | 15.45 | 12.39 | 15.53 | 12.45 | 15.62 | 12.52 | 15.70 | 12.59 | 15.78 | 12.65 | 15.87 | 12.72 | 15.95 | 12.79 |
| Module Efficiency(%) | 23.1 | | 23.3 | | 23.5 | | 23.7 | | 23.9 | | 24.1 | | 24.2 | | 24.4 | |

Electrical characteristics with different rear side power gain (reference to 645W front)

| Pmax /W | Voc/V | Isc /A | Vmp/V | Imp /A | Pmax gain |
|---------|-------|--------|-------|--------|-----------|
| 678 | 49.91 | 17.23 | 41.10 | 16.49 | 5% |
| 710 | 49.91 | 18.05 | 41.10 | 17.27 | 10% |
| 744 | 50.01 | 18.87 | 41.20 | 18.06 | 15% |
| 776 | 50.01 | 19.69 | 41.20 | 18.84 | 20% |
| 809 | 50.01 | 20.51 | 41.20 | 19.63 | 25% |

Operating Parameters

| | |
|------------------------------------|---------------------------|
| Operational Temperature | -40°C ~ +85°C |
| Power Output Tolerance | 0 ~ 3% |
| Maximum System Voltage | DC1500V (IEC/UL) |
| Maximum Series Fuse Rating | 35A |
| Nominal Operating Cell Temperature | 45±2°C |
| Protection Class | Class II |
| Bifaciality | 70±5% |
| Fire Rating | UL type 29 IEC Class C |

Mechanical Loading

| | |
|-----------------------------------|--------------------------------------|
| Front Side Maximum Static Loading | 5400Pa |
| Rear Side Maximum Static Loading | 2400Pa |
| Hailstone Test | 25mm Hailstone at the speed of 23m/s |

Temperature Ratings (STC)

| | |
|---------------------------------|------------|
| Temperature Coefficient of Isc | +0.050%/°C |
| Temperature Coefficient of Voc | -0.200%/°C |
| Temperature Coefficient of Pmax | -0.260%/°C |